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(54) Title: INHIBITORS OF GST A3-3 AND GST A1-1 FOR THE TREATMENT OF CANCER

(57) **Abstract.** The present invention relates to a novel drug target, glutathione transferase (GST), preferably GST A3-3, as target for treatment of cancer and other diseases responsive to inhibition of steroid hormone production. The present invention also relates to a method for screening of compounds or drug candidates that modulate, preferably inhibit, the activity of GST, in which method GST is used as a drug target. The invention further relates to the use of inhibitors of GST A3-3 for production of a drug for treatment of steroid hormone dependent diseases, such as for treatment of cancer, preferably prostate cancer or breast cancer. The present invention also relates to a method for treating cancer or steroid hormone dependent diseases, comprising administering, e.g., a non-steroidal compound that modulates the tissue concentration of GST A3-3 or inhibits the enzymatic activity of GST A3-3, to a human in need of such a treatment.

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